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1 Flexible authentication of XML documents
P. Devanbu, M. Gertz, A. Kwong, C. Martel, G. Nuckolls, S. G. Stubblebine
November 2001 CCS '01: Proceedings of the 8th ACM conference on
                   Computer and Communications Security
Publisher: ACM

Full text available: 🖹 pdf(219.17 KB)   Additional Information: full citation, abstract, references, cited by, index terms

XML is increasingly becoming the format of choice for information
exchange, in critical areas such as government, finance, healthcare and
law, where integrity is of the essence. As this trend grows, one can
expect that documents (or collections thereof) ...

2 Event-driven response architecture for event-based computing
Vijay Dheap, Paul A. S. Ward
October 2005 CASCON '05: Proceedings of the 2005 conference of the
                   Centre for Advanced Studies on Collaborative research
Publisher: IBM Press

Full text available: 🖹 pdf(112.71 KB)   Additional Information: full citation, abstract, references, index terms

Service-based computing is rapidly replacing the more-traditional
approaches to architecting distributed systems. The critical advantage of
service-based architectures is that they require only a specification of
protocol, and not of API. As such, they ...

Keywords: event-driven systems, service-oriented architecture, web
services

3 Set-at-a-time access to XML through DOM
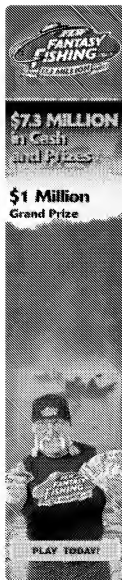Hai Chen, Frank Wm. Tompa
November 2003 DocEng '03: Proceedings of the 2003 ACM symposium on
                   Document engineering
Publisher: ACM

Full text available: 🖹 pdf(271.18 KB)   Additional Information: full citation, abstract, references, index terms

To support the rapid growth of the web and e-commerce, W3C developed
DOM as an application programming interface that provides the abstract,
logical tree structure of an XML document. In this paper, we propose
ordered-set-at-a-time extensions for DOM ...

Keywords: DOM, XML, application program interface, navigation, set-at-a-time

4 Stimulating interest in practical e-commerce programming using barcodes, Amazon web services, Java, and XML

Robin M. Snyder

January 2007 Journal of Computing Sciences in Colleges, Volume 22 Issue 3

Publisher: Consortium for Computing Sciences in Colleges

Full text available: 📄 pdf(247.70 KB)   Additional Information: full citation, abstract, references, index terms

This paper takes the reader through the process of using barcodes in a practical setting involving ISBN lookup of book information using Amazon Web Services. Java and XML processing are used for the examples. While the implementation is fairly specific, ...

5 A programming environment for demand-driven processing of network XML data and its performance evaluation

Masakazu Yamanaka, Kenji Niimura, Tomio Kamada

November 2005 DocEng '05: Proceedings of the 2005 ACM symposium on Document engineering

Publisher: ACM

Full text available: 📄 pdf(417.15 KB)   Additional Information: full citation, abstract, references, index terms

This paper proposes a programming environment for Java that processes network XML data in a demand-driven manner to return quick initial responses. Our system provides a data binding tool and a tree operation package, and the programmer can easily ...

Keywords: XML, data binding, demand-driven, multi-threading

6 Design principles for public safety response mobilization

Jane Fedorowicz, M. Lynne Markus, Steve Sawyer, Michael Tyworth, Christine B. Williams

May 2006 dg.o '06: Proceedings of the 2006 international conference on Digital government research

Publisher: ACM

Full text available: 📄 pdf(209.00 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we identify key characteristics of public safety response mobilization systems (PSRMS) and describe the different technical characteristics they can assume: open standards vs. commercial-off-the-shelf packages, fixed vs. mobile, security ...

Keywords: collaboration, criminal justice, design features, first responder support, interorganizational systems, public safety response

7 Storing and querying XML data using denormalized relational databases

Andrey Balmin, Yannis Papakonstantinou

March 2005 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 14 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: 📄 pdf(397.97 KB)   Additional Information: full citation, abstract, references, cited by

XML database systems emerge as a result of the acceptance of the XML data model. Recent works have followed the promising approach of building XML database management systems on underlying RDBMS's. Achieving query processing performance reduces ...

8 Proceedings of the 2002 ACM workshop on XML security
Michiharu Kudo
November 2002 proceeding
Publisher: ACM
Additional Information: full citation, abstract, review

These proceedings contain the papers selected for presentation at the ACM Workshop on XML Security, held in conjunction with the 9th ACM Computer and Communications Security Conference, November 22, 2002, in Washington, DC (USA).In response to the call ...

9 A sensor-based, web service-enabled, emergency medical response system
Nada Hashmi, Dan Myung, Mark Gaynor, Steve Moulton
June 2005 EESR '05: Proceedings of the 2005 workshop on End-to-end, sense-and-respond systems, applications and services
Publisher: USENIX Association
Full text available: pdf(238.94 KB) Additional Information: full citation, abstract, references, index terms

Recent advances in low power wireless sensor networks are enabling new and exciting applications for wireless devices. At the same time, the power and flexibility of web services is expanding the power of the internet. Herein, we describe a scalable ...

10 Automatically generating refactorings to support API evolution
Jeff H. Perkins
January 2006 ACM SIGSOFT Software Engineering Notes. Volume 31 Issue 1
Publisher: ACM
Full text available: pdf(68.44 KB) Additional Information: full citation, abstract, references, cited by, index terms

When library APIs change, client code should change in response, in order to avoid erroneous behavior, compilation failures, or warnings. Previous research has introduced techniques for generating such client refactorings. This paper improves on the ...

11 A performance evaluation of storing XML data in relational database management systems
Latifur Khan, Yan Rao
November 2001 WIDM '01: Proceedings of the 3rd international workshop on Web information and data management
Publisher: ACM
Full text available: pdf(104.45 KB) Additional Information: full citation, abstract, references, index terms

XML is an emerging standard for the representation and exchange of Internet data. Along with document type definition (DTD), XML permits the execution of a collection of queries, using XPath to identify data in

XML documents. In this paper we examine ...

Keywords: DTD, SQL, XML, XPath, relational DBMS

12 Authenticating distributed data using Web services and XML
    signatures
    Daniel J. Polivy, Roberto Tamassia
    November 2002 XMLSEC '02: Proceedings of the 2002 ACM workshop on XML
                    security
    Publisher: ACM

    Full text available: pdf(164.09 KB)   Additional Information: full citation, abstract,
                                                                 references, index terms

    As the need for digital data becomes more ubiquitous, so does the need
    to provide efficient mechanisms for distributing and verifying the
    authenticity of that data. We present an architecture for authenticating
    responses to queries from untrusted mirrors ...

    Keywords: Web services, XML, authentication, digital signatures

13 XML parsing: a threat to database performance
    Matthias Nicola, Jasmi John
    November 2003 CIKM '03: Proceedings of the twelfth international
                    conference on Information and knowledge management
    Publisher: ACM
                                     Additional Information: full citation, abstract,
    Full text available: pdf(210.86 KB)   references, cited by, index
                                                            terms

    XML parsing is generally known to have poor performance characteristics
    relative to transactional database processing. Yet, its potentially fatal
    impact on overall database performance is being underestimated. We
    report real-word database applications ...

    Keywords: DOM, SAX, XML, database, parser, performance, validation

14 Automatically generating refactorings to support API evolution
    Jeff H. Perkins
    September 2005 PASTE '05: Proceedings of the 6th ACM SIGPLAN-SIGSOFT
                    workshop on Program analysis for software tools and
                    engineering
    Publisher: ACM

    Full text available: pdf(68.44 KB)   Additional Information: full citation, abstract, references,
                                                                 cited by, index terms

    When library APIs change, client code should change in response, in order
    to avoid erroneous behavior, compilation failures, or warnings. Previous
    research has introduced techniques for generating such client
    refactorings. This paper improves on the ...

15 Distributed XML-based network management using JPVM
    Shaik Sirajuddin, Mohammed H. Sqalli
    July 2006 International Journal of Network Management, Volume 16 Issue
                    4
    Publisher: John Wiley & Sons, Inc.

    Full text available: pdf(727.08 KB)   Additional Information: full citation, abstract,
                                                                 references, index terms

The proliferation of the Internet and related applications has led to an
increasing need for a more efficient and scalable network management
framework. As the size of networks increases, more challenges are
presented to network managers. One of these ...

16 Second generation web services-oriented architecture in production in
the finance industry
Olaf Zimmermann, Sven Milinski, Michael Craes, Frank Oellermann
October 2004 OOPSLA '04: Companion to the 19th annual ACM SIGPLAN
            conference on Object-oriented programming systems,
            languages, and applications
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(303.79 KB)   references, cited by, index
                                                            terms

Effective and affordable business process integration is a key concern in
the finance industry. A large German joint-use centre, supplying services
to 237 individual savings banks, enhanced the integration capabilities of
its core banking system, consisting ...

Keywords: CICS, HTTP, SOAP, UDDI, WSDL, XML, XML schema,
application server, business process, compression, core banking,
enterprise application integration, service-oriented architecture, software
architecture, web application, web services, webSphere

17 BioPortal: an integrated infectious disease information sharing and
analysis environment
Daniel Zeng, Hsinchun Chen, Chunju Tseng, Catherine A. Larson, Millicent
Eidson, Ivan Gotham, Cecil Lynch, Michael Ascher
May 2005 dg.o2005: Proceedings of the 2005 national conference on Digital
            government research
Publisher: Digital Government Research Center

Full text available: pdf(152.47 KB)   Additional Information: full citation, abstract, index
                                                            terms

We present the BioPortal system, an integrated cross-jurisdictional data
sharing and analysis environment to facilitate detection, prevention, and
management of infectious disease outbreaks.

Keywords: bioterrorism response, infectious disease, public health

18 XRel: a path-based approach to storage and retrieval of XML
documents using relational databases
August 2001 ACM Transactions on Internet Technology (TOIT), Volume 1
            Issue 1
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(264.27 KB)   references, cited by, index
                                                            terms, review

This article describes XRel, a novel approach for storage and retrieval of
XML documents using relational databases. In this approach, an XML
document is decomposed into nodes on the basis of its tree structure and
stored in relational tables according ...

Keywords: XML query, XPath, text markup, text tagging

19 Breakthrough ideas
James O. Coplien, Brian Foote, Richard P. Gabriel, Dave Thomas, Cristina
Lopes, Brian Marick, Bonnie Nardi, Rob Tow, Andrew Hunt, Glenn
Vanderburg
October 2005 OOPSLA '05: Companion to the 20th annual ACM SIGPLAN
                 conference on Object-oriented programming, systems,
                 languages, and applications
Publisher: ACM

Additional Information: full citation,
Full text available: pdf(1.27 MB) mov(91:15 MiN)   cited by,
                                                                                      index terms

Keywords: abstraction, agency, architecture, bayesian inference,
communication, culture, design, education, expert systems, fuzzy sets,
intention, literary criticism, objects, poetry, postmodernism,
programmers, programming, programming language design, reader
response criticism, software development

20 ACP: an interactive classroom response system for active learning
environment
Abderrahmane Lakas, Khaled Shuaib, Mohammed Boulmalf
July 2006 IWCMC '06: Proceedings of the 2006 international conference on
                 Wireless communications and mobile computing
Publisher: ACM

Full text available: pdf(267.12 KB) Additional Information: full citation, abstract,
                                                              references, index terms

E-learning is an emerging approach to education reflected in new learning
techniques such as active and cooperative learning. Supporting
communication technologies such as web-based tools, mobile devises and
smart classroom used for interactive learning ...

Keywords: WLAN, active assessment, classroom response system

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